



SHEET 1 OF 4

FORM PTO-1449
(Rev. 2-32)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
TER-002.3PSERIAL NO.
08/895,612INFORMATION DISCLOSURE
STATEMENT BY APPLICANTAPPLICANT
RAKIB

(USE SEVERAL SHEETS IF NECESSARY)

FILING DATE
July 16, 1997GROUP
unknown

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE IF APPROP. |
|---------------------|---|-----------------|---------------|---------------------|-------|--------------|---------------------------|
| RCS | A | 5,442,627 | Aug. 15, 1995 | Viterbi, et al. | 370 | 22 | Jun. 24, 1993 |
| RCS | B | 5,452,328 | Sep. 19, 1995 | Rice | 375 | 210 | Jul. 30, 1993 |
| RCS | C | 5,090,024 | Feb. 18, 1992 | Vander Mey, et al. | 375 | 1 | Aug. 23, 1989 |
| RCS | D | 4,933,930 | Jun. 12, 1990 | Lien et al. | 370 | 18 | Oct. 31, 1988 |
| RCS | E | 5,448,555 | Sep. 5, 1995 | Bremer et al. | 370 | 20 | Jun. 14, 1993 |
| RCS | F | 5,404,570 | Apr. 4, 1995 | Charas et al. | 455 | 22 | Nov. 23, 1992 |
| RCS | G | 5,440,585 | Aug. 8, 1995 | Partridge, III | 375 | 261 | Jun. 14, 1993 |
| RCS | H | 4,723,164 | Feb. 2, 1988 | Nienaber | 358 | 148 | Jun. 28, 1985 |
| RCS | I | 5,418,813 | May 23, 1995 | Schaffner et al. | 375 | 205 | Dec. 6, 1993 |
| RCS | J | 4,926,130 | May 15, 1990 | Weaver | 328 | 14 | Jan. 19, 1988 |
| RCS | K | 5,224,122 | Jun. 29, 1993 | Bruckert | 375 | 1 | Jun. 29, 1992 |
| RCS | L | 5,325,394 | Jun. 28, 1994 | Bruckert | 375 | 1 | Mar. 3, 1993 |
| RCS | M | 4,773,066 | Sep. 20, 1988 | Kirkman | 370 | 85 | Apr. 15, 1986 |
| RCS | N | 4,912,721 | Mar. 27, 1990 | Pidgeon Jr., et al. | 375 | 1 | Apr. 29, 1988 |
| RCS | O | 5,235,619 | Aug. 10, 1993 | Beyers, II et al. | 375 | 38 | Mar. 20, 1990 |

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | PUB. DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | |
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| | | | | | | | YES | NO |
| RCS | P | PCT/US95/10899 | Mar. 21, 1996 | PCT | | | X | |
| RCS | Q | PCT/US95/04329 | Oct. 28, 1995 | PCT | | | X | |
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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| EXAMINER INITIAL | | |
|---------------------|---|--|
| RCS | T | Westlaw Dialog Search |
| RCS | U | R. De Gaudenzi et al., "Performance Evaluation of Quasi-Synchronous Code Division Multiple Access (QS-CDMA) for Satellite Mobile Systems," GLOBECOM '90: IEEE Global Telecommunications Conference, 1800-1804. (04/1990) |

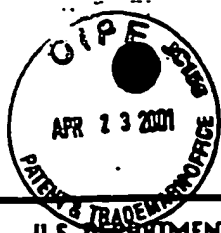
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SHEET 2 OF 4

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FILING DATE
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U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE IF APPROP. |
|---------------------|---|-----------------|---------------|--------------------|-------|--------------|---------------------------|
| RCS | A | 4,811,365 | Mar 7, 1989 | Manno | 375 | 107 | Nov 7, 1986 |
| RCS | B | 5,425,027 | Jun 13, 1995 | Baran | 370 | 69.1 | Jan 4, 1993 |
| RCS | C | 4,688,210 | Aug 18, 1987 | Eizenhofer, et al. | 370 | 335 | Mar 18, 1986 |
| RCS | D | 5,539,730 | Jul 23, 1996 | Dent | 370 | 320 | Jan 11, 1994 |
| RCS | E | 5,533,013 | Jul 2, 1996 | Leppanen | 370 | 208 | Apr 11, 1995 |
| RCS | F | 5,481,533 | Jan 2, 1996 | Honig, et al. | 375 | 208 | May 12, 1994 |
| RCS | G | 5,390,166 | Feb 14, 1995 | Rohani, et al. | 370 | 335 | Jul 14, 1993 |
| RCS | H | 5,363,404 | Nov 8, 1994 | Kotzin, et al. | 370 | 352 | Jul 13, 1993 |
| RCS | I | 5,345,439 | Sep 6, 1994 | Marston | 370 | 18 | Apr 23, 1993 |
| RCS | J | 5,347,304 | Sep 13, 1994 | Moura, et al. | 348 | 12 | Jul 28, 1993 |
| RCS | K | 4,475,208 | Oct 2, 1984 | Ricketts | 375 | 1 | Jan 18, 1982 |
| RCS | L | 4,635,274 | Jan 6, 1987 | Kubota | 375 | 1 | Apr 25, 1985 |
| RCS | M | 5,463,660 | Oct 31, 1995 | Fukasawa, et al. | 375 | 205 | Aug. 3, 1994 |
| RCS | N | 5,442,662 | Aug. 15, 1995 | Fukasawa, et al. | 375 | 205 | Jun. 16, 1994 |
| RCS | O | 5,414,699 | May 9, 1995 | Lee | 370 | 18 | Sep. 27, 1993 |

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | PUB. DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | |
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Technology Center 2600

| EXAMINER INITIAL | | |
|---------------------|---|--|
| RCS | T | R. Lupas et al., "Linear Multiuser Detectors for Synchronous Code Division Multiple Access Channels," IEEE Transactions on Information Theory, Vol. 35, Issue 1, pgs. 123-136. (01/1989) |
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SHEET 3 OF 4

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08/895,612INFORMATION DISCLOSURE
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RAKIB

(USE SEVERAL SHEETS IF NECESSARY)

FILING DATE
July 16, 1997GROUP
unknown

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE IF APPROP. |
|---------------------|---|-----------------|---------------|---------------------|-------|--------------|---------------------------|
| RCS | A | 5,345,472 | Sep. 8, 1994 | Lee | 375 | 1 | Aug. 2, 1993 |
| RCS | B | 5,297,162 | Mar. 22, 1994 | Lee, et al. | 375 | 1 | Jun. 4, 1993 |
| RCS | C | 5,327,455 | Jul. 5, 1994 | De Gaudenzi, et al. | 375 | 1 | Mar. 18, 1993 |
| RCS | D | 5,319,634 | Jun. 7, 1994 | Bartholomew, et al. | 370 | 18 | Oct. 7, 1991 |
| RCS | E | 5,416,797 | May 16, 1995 | Gilhousen, et al. | 375 | 705 | Jan. 24, 1992 |
| RCS | F | 4,554,579 | Nov. 19, 1985 | Citta | 358 | 86 | Sep. 6, 1984 |
| RCS | G | 4,553,161 | Nov. 12, 1985 | Citta | 358 | 86 | Sep. 6, 1984 |
| RCS | H | 5,231,664 | Jul. 27, 1993 | Bestler, et al. | 380 | 20 | Nov. 14, 1991 |
| RCS | I | 5,239,557 | Aug. 24, 1993 | Dent | 371 | 1 | Apr. 10, 1992 |
| RCS | J | 4,460,992 | Jul. 17, 1984 | Gutleber | 370 | 19 | Nov. 4, 1982 |
| RCS | K | 5,363,403 | Nov. 8, 1994 | Schilling, et al. | 375 | 1 | Apr. 22, 1993 |
| RCS | L | 4,470,138 | Sep. 4, 1984 | Gutleber | 370 | 18 | Nov. 4, 1982 |
| RCS | M | 5,394,391 | Feb. 28, 1995 | Chen, et al. | 370 | 18 | Oct. 15, 1992 |
| RCS | N | 5,442,625 | Aug. 15, 1995 | Giffin, et al. | 370 | 18 | May 13, 1994 |
| RCS | O | 5,233,630 | Aug. 3, 1993 | Wolf | 375 | 67 | May 3, 1991 |
| RCS | P | 4,757,460 | Jul. 12, 1988 | Blone, et al. | 364 | 514 | Jun. 14, 1985 |
| RCS | Q | 5,235,815 | Aug. 10, 1993 | Omura | 375 | 1 | Jul. 21, 1992 |
| RCS | R | 5,373,502 | Dec. 13, 1994 | Turban | 370 | 18 | Mar. 25, 1993 |
| RCS | S | 5,353,300 | Oct. 4, 1994 | Lee, et al. | 375 | 1 | Jun. 7, 1993 |
| RCS | T | 5,193,094 | Mar. 9, 1993 | Viterbi | 371 | 43 | Mar. 7, 1990 |
| RCS | U | 5,359,624 | Oct. 25, 1994 | Lee, et al. | 375 | 1 | Jun. 7, 1993 |
| RCS | V | 5,309,474 | May 3, 1994 | Gilhousen, et al. | 375 | 1 | Mar. 27, 1992 |
| RCS | W | 5,280,472 | Jan. 18, 1994 | Gilhousen, et al. | 370 | 18 | Mar. 9, 1992 |
| RCS | X | 5,313,454 | May 17, 1994 | Bustini, et al. | 370 | 13 | Apr. 1, 1992 |
| RCS | Y | 5,467,342 | Nov. 14, 1995 | Longston, et al. | 370 | 17 | Oct. 5, 1994 |
| RCS | Z | 5,305,308 | Apr. 19, 1994 | English, et al. | 370 | 32.1 | Oct. 29, 1992 |

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SHEET 4 OF 4

FORM PTO-1449
(Rev. 2-32)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
TER-0023PSERIAL NO.
08/895,612INFORMATION DISCLOSURE
STATEMENT BY APPLICANTAPPLICANT
RAKIB

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FILING DATE
July 16, 1997GROUP
unknown

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE IF APPROP. |
|---------------------|---|-----------------|---------------|---------------------|-------|--------------|---------------------------|
| RCS | A | 4,748,681 | May 31, 1998 | Schmidt | 455 | 33 | Apr. 28, 1986 |
| RCS | B | 5,295,152 | Mar. 15, 1994 | Gudmundson, et al. | 375 | 1 | Apr. 10, 1992 |
| RCS | C | 5,442,700 | Aug. 15, 1995 | Snell, et al. | 380 | 15 | Sep. 22, 1994 |
| RCS | D | 5,557,316 | Sep. 17, 1996 | Hoarty, et al. | 348 | 7 | Sep. 29, 1994 |
| RCS | E | 5,511,067 | Apr. 23, 1996 | Miller | 370 | 18 | Jun. 17, 1994 |
| RCS | F | 5,398,258 | Mar. 14, 1995 | Su, et al. | 375 | 200 | Oct. 26, 1993 |
| RCS | G | 5,583,853 | 12/10/1996 | Giallorenzi, et al. | 370 | 441 | 11/28/95 |
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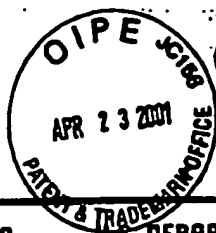
EXAMINER

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SHEET 1 OF 1

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|--|--|---------------------------------|--------------------------|
| FORM PTO-1449 (Rev. 2-32) | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | ATTY. DOCKET NO. TER-002.3P | SERIAL NO. 08/895,612 |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | | APPLICANT RAKIB, et al. | |
| (USE SEVERAL SHEETS IF NECESSARY) | | FILING DATE February 9, 1998 | GROUP unknown |

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE IF APPROP. |
|---------------------|---|-----------------|--------------|----------------|-------|--------------|---------------------------|
| ACS | A | 5,488,412 | Jan 30, 1998 | Majeti, et al. | 348 | 10 | Mar 31, 1994 |
| ACS | B | 5,512,935 | Apr 30, 1996 | Majeti, et al. | 348 | 9 | Mar 31, 1994 |
| ACS | C | 5,534,913 | Jul 9, 1996 | Majeti, et al. | 348 | 7 | Mar 31, 1994 |
| ACS | D | 5,588,121 | Dec 17, 1996 | Moura, et al. | 370 | 404 | Apr 21, 1995 |
| ACS | E | 5,594,872 | Jan 14, 1997 | Kawano, et al. | 395 | 200.15 | Apr 26, 1994 |
| ACS | F | 5,608,448 | Mar 4, 1997 | Carr, et al. | 348 | 6 | May 9, 1995 |
| ACS | G | 5,608,728 | Mar 4, 1997 | Ulm, et al. | 370 | 488 | Apr 13, 1995 |
| ACS | H | 5,619,531 | Apr 8, 1997 | Taylor, et al. | 375 | 222 | Nov 14, 1994 |
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FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | PUB. DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | |
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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Robert C. Schmitt

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RAKIB, et al.

(USE SEVERAL SHEETS IF NECESSARY)

FILING DATE
July 16, 1997GROUP
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U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE IF APPROP. |
|---------------------|---|-----------------|--------------|---------------------|-------|--------------|---------------------------|
| LLS | A | 5,499,236 | Mar 12, 1998 | Giallorenzi, et al. | 370 | 18 | Aug 16, 1994 |
| | B | | | | | | |
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Robert A. Schuchman

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TER-002.2PSERIAL NO.
08/684,249INFORMATION DISCLOSURE
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U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE IF APPROP. |
|---------------------|---|-----------------|---------------|------------------|-------|--------------|---------------------------|
| RLS | A | 5,751,739 | May 12, 1998 | Seshadri, et al. | 371 | 43 | Apr. 29, 1994 |
| RLS | B | 4,218,654 | Aug. 19, 1980 | Ogawa, et al. | 370 | 97 | Feb. 21, 1979 |
| RLS | C | 5,072,445 | Dec. 10, 1991 | Nawata | 370 | 104 | Nov. 30, 1989 |
| RLS | D | 5,617,410 | Apr. 1, 1997 | Matsumoto | 370 | 342 | Mar. 15, 1995 |
| RLS | E | 5,712,982 | Jan. 27, 1998 | Marcel | 395 | 200.17 | Sep. 20, 1995 |
| RLS | F | 5,745,484 | Apr. 28, 1998 | Scott | 370 | 347 | Jun. 5, 1995 |
| RLS | G | 5,761,198 | Jun. 2, 1998 | Kojima | 370 | 337 | Sep. 22, 1995 |
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RAKIB, et al.

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U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE IF APPROP. |
|---------------------|---|-----------------|---------------|--------------------|-------|--------------|---------------------------|
| RLS | A | Re. 35,774 | Apr. 21, 1998 | Moura, et al. | 348 | 12 | Nov. 16, 1994 |
| RLS | B | 4,829,569 | May 9, 1989 | Seth-Smith, et al. | 380 | 10 | Jul. 8, 1986 |
| RLS | C | 4,894,789 | Jan. 16, 1990 | Yee | 364 | 521 | Feb. 22, 1988 |
| RLS | D | 5,093,718 | Mar. 3, 1992 | Hoarty, et al. | 358 | 84 | Sep. 28, 1990 |
| RLS | E | 5,130,983 | Jul. 14, 1992 | Heffner, III | 370 | 85.8 | Mar. 27, 1990 |
| RLS | F | 5,133,079 | Jul. 21, 1992 | Ballantyne, et al. | 455 | 4.1 | Aug. 28, 1990 |
| RLS | G | 5,195,092 | Mar. 16, 1993 | Wilson, et al. | 370 | 94.2 | Aug. 30, 1991 |
| RLS | H | 5,200,993 | Apr. 6, 1993 | Wheeler, et al. | 379 | 96 | May 10, 1991 |
| RLS | I | 5,247,347 | Sep. 21, 1993 | Litteral, et al. | 358 | 85 | Sep. 27, 1991 |
| RLS | J | 5,373,288 | Dec. 13, 1994 | Blahut | 340 | 825.08 | Oct. 23, 1992 |

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| EXAMINER INITIAL | | DOCUMENT NUMBER | PUB. DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | |
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RAKIB, et al.

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2711**U.S. PATENT DOCUMENTS**

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE IF APPROP. |
|---------------------|---|-----------------|---------------|-----------------|-------|--------------|---------------------------|
| RLC | A | 5,408,465 | Apr. 18, 1995 | Gusella, et al. | 370 | 17 | Jun. 21, 1993 |
| RLC | B | 5,550,578 | Aug. 27, 1996 | Hoarty, et al. | 348 | 7 | Oct. 6, 1994 |
| RLC | C | 5,572,517 | Nov. 5, 1996 | Safadi | 370 | 50 | Mar. 10, 1995 |
| RLC | D | 5,572,528 | Nov. 5, 1996 | Shuen | 370 | 85.13 | Mar. 20, 1995 |
| RLC | E | 5,828,655 | Oct. 27, 1998 | Moura, et al. | 370 | 238 | Aug. 21, 1996 |
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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EXAMINER

R. Platt C. Schmitt

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| FORM PTO-1449 (Rev. 2-32) | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | ATTY. DOCKET NO. TER-002.2P | SERIAL NO. 08/684,243 |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | | APPLICANT RAKIB, et al. | |
| (USE SEVERAL SHEETS IF NECESSARY) | | FILING DATE 07/19/96 | GROUP 2711 |

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE IF APPROP. |
|---------------------|---|-----------------|---------------|------------------|-------|--------------|---------------------------|
| RES | A | 5,157,686 | Oct. 20, 1992 | Omura, et al. | 375 | 1 | Jun. 24, 1991 |
| RES | B | 5,164,958 | Nov. 17, 1992 | Omura | 375 | 1 | Jul. 19, 1991 |
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FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | PUB. DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | |
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EXAMINER

Robert C. Schmitt

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| RC | S | "A Wireless Multimedia Network on a Time Division Duplex CDMA/TDMA", Saki K. et al., <i>IEICE Transactions on Communications</i> , vol. E78-B, no. 7, 1 July 1995, pages 1002-1015. |
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